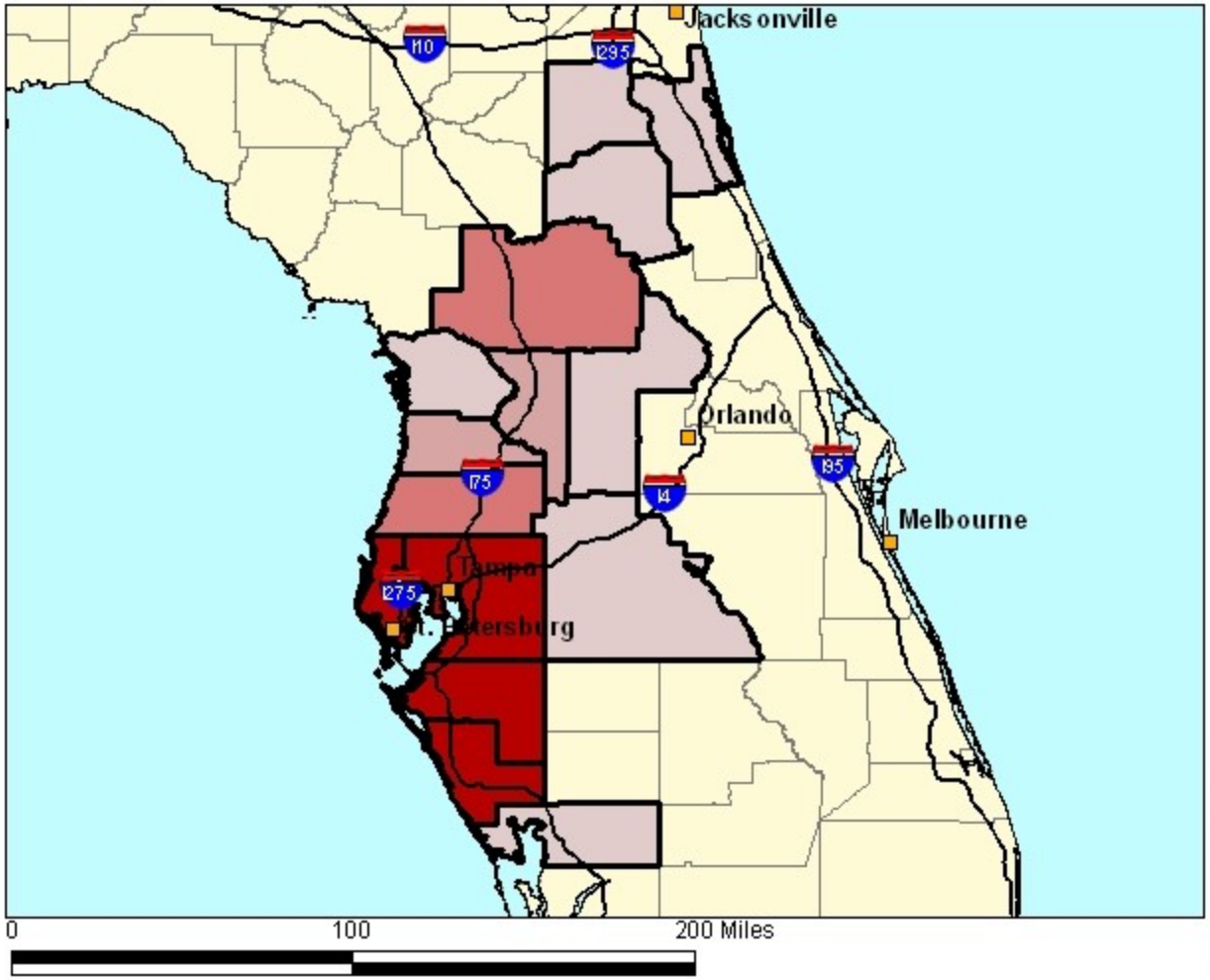
US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **4** Hours

For Official Use Only!



Post Landfall Debris Model Results

Florida - 36,898,000 Yards

Model results per county on following page

This model is based on a Category 3 storm making landfall near Tampa-St. Petersburg, FL.

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Tampa-St. Petersburg, FL. These projections are based on information from the NHC (1100 EDT 06/05/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Debris Model	
Generated By: Siemsen, LRL 1130 EDT 06/05/2007	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 12

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About 4 Hours

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State	Yards per State	County	Yards per County
Florida		Charlotte	8,000
		Citrus	28,000
		Clay	< 1,000
		Hernando	118,000
		Hillsborough	13,259,000
		Lake	70,000
		Manatee	7,042,000
		Marion	258,000
		Pasco	491,000
		Pinellas	13,786,000
		Polk	96,000
		Putnam	24,000
		Sarasota	1,584,000
		St Johns	5,000
		Sumter	129,000
		Volusia	< 1,000
Florida	36,898,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1130 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About 4 Hours

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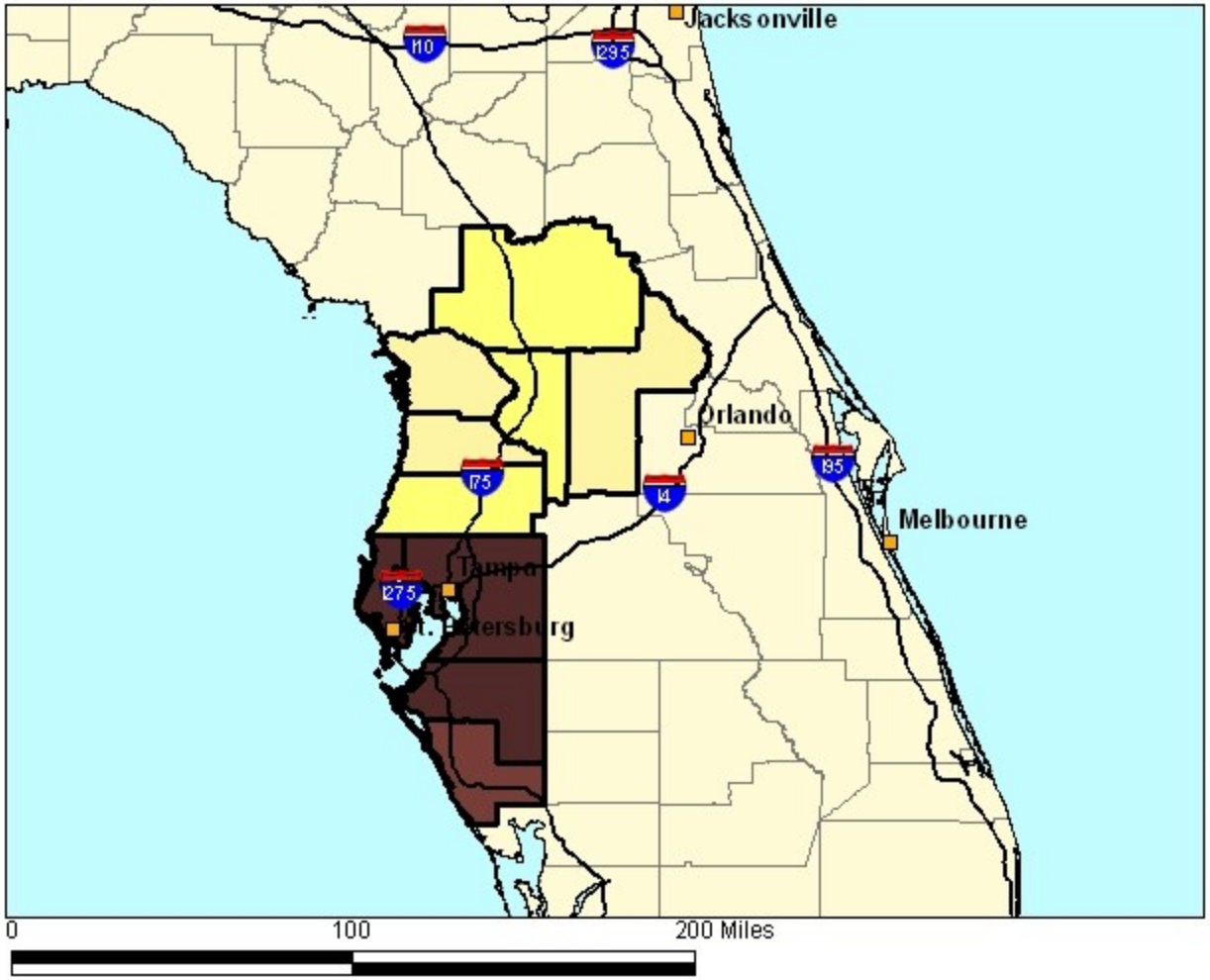

Post Landfall Population Model Results

Florida - 1,933,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Tampa-St. Petersburg, FL.

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Tampa-St. Petersburg, FL. These projections are based on information from the NHC (1100 EDT 06/05/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model	
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US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	Population per State	County	Population per County
Florida		Citrus	4,000
		Hernando	19,000
		Hillsborough	791,000
		Lake	9,000
		Manatee	289,000
		Marion	53,000
		Pasco	77,000
		Pinellas	416,000
		Sarasota	226,000
		Sumter	49,000
Florida	1,933,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1130 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **4** Hours

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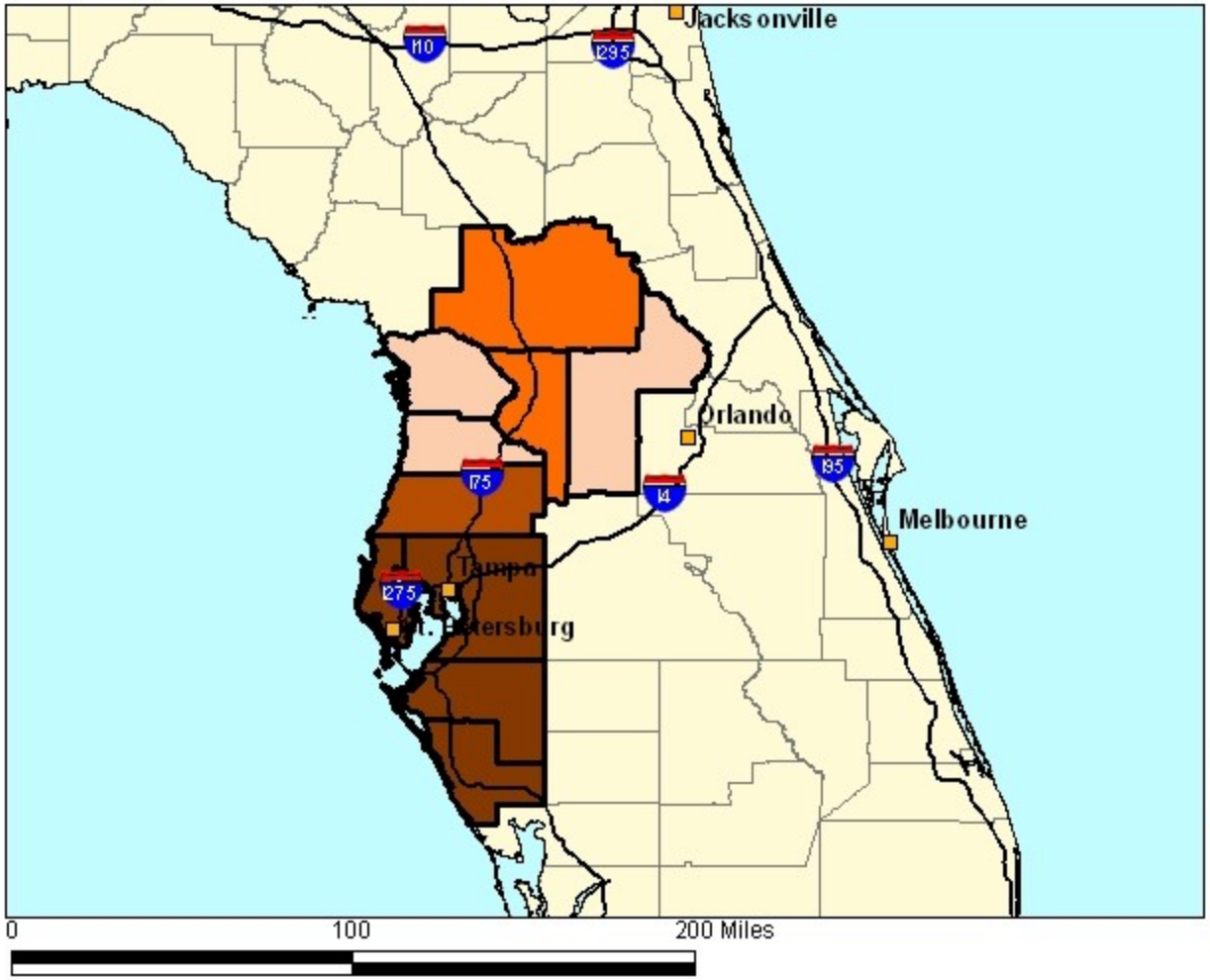

Post Landfall Households Model Results

Florida - 823,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Tampa-St. Petersburg, FL.

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Tampa-St. Petersburg, FL. These projections are based on information from the NHC (1100 EDT 06/05/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model	
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US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	Households per State	County	Households per County
Florida		Citrus	2,000
		Hernando	8,000
		Hillsborough	320,000
		Lake	5,000
		Manatee	125,000
		Marion	23,000
		Pasco	28,000
		Pinellas	188,000
		Sarasota	104,000
		Sumter	20,000
Florida	823,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model

Generated By:
Siemsen, LRL 1130 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **4** Hours

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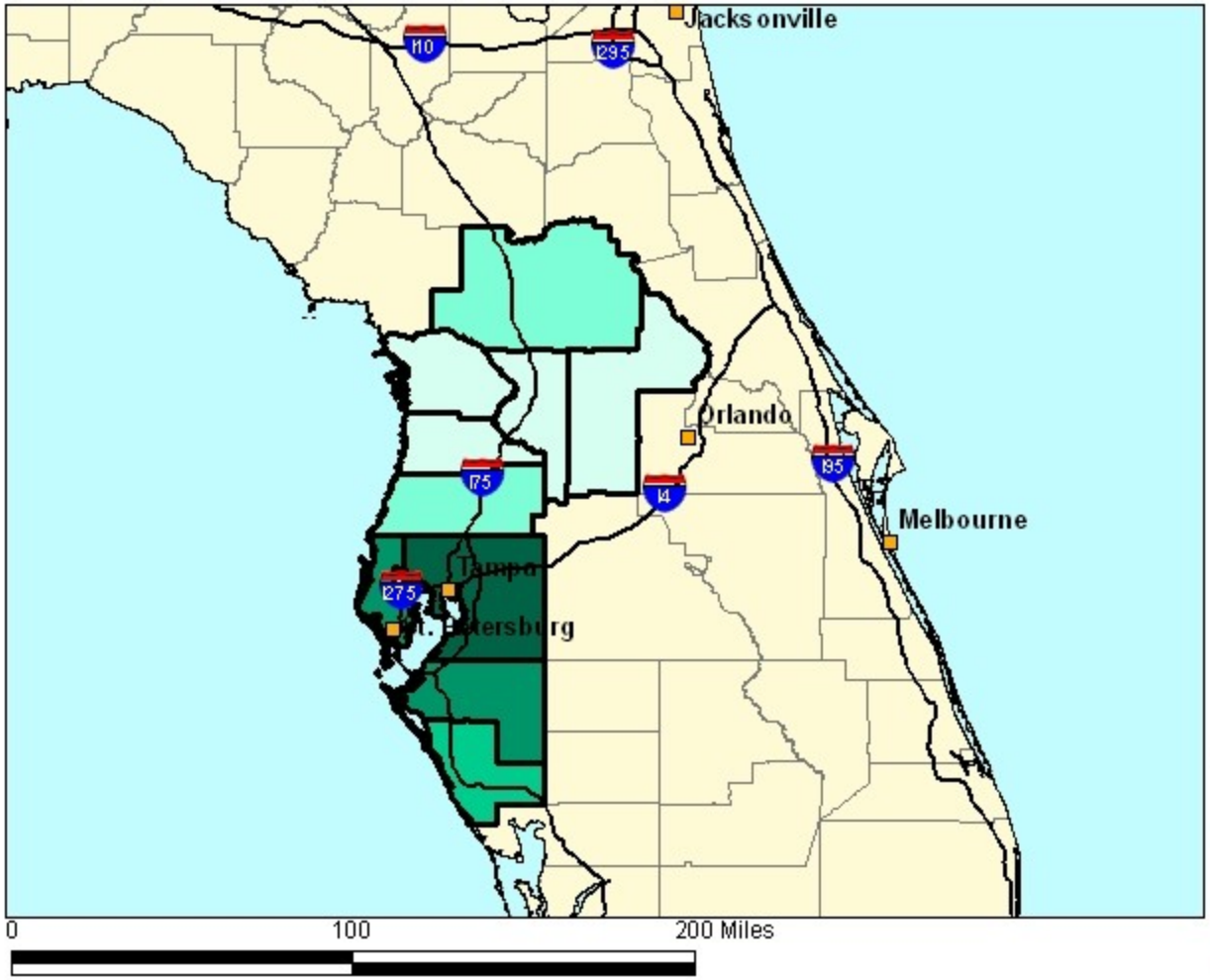

Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
FL – 50/100/161 Truckloads Each

Model results per county on following page

This model is based on a Category 3 storm making landfall near Tampa-St. Petersburg, FL.

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Tampa-St. Petersburg, FL. These projections are based on information from the NHC ***(1100 EDT 06/05/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model	
Generated By: Siemsen, LRL 1130 EDT 06/05/2007	
Sources: HURREVAC LRL-DEBRIS	Page 7 of 12

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About 4 Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
Florida		Citrus	1
		Hernando	2
		Hillsborough	64
		Lake	1
		Manatee	24
		Marion	5
		Pasco	7
		Pinellas	34
		Sarasota	19
		Sumter	4
Florida	161		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About **4** Hours

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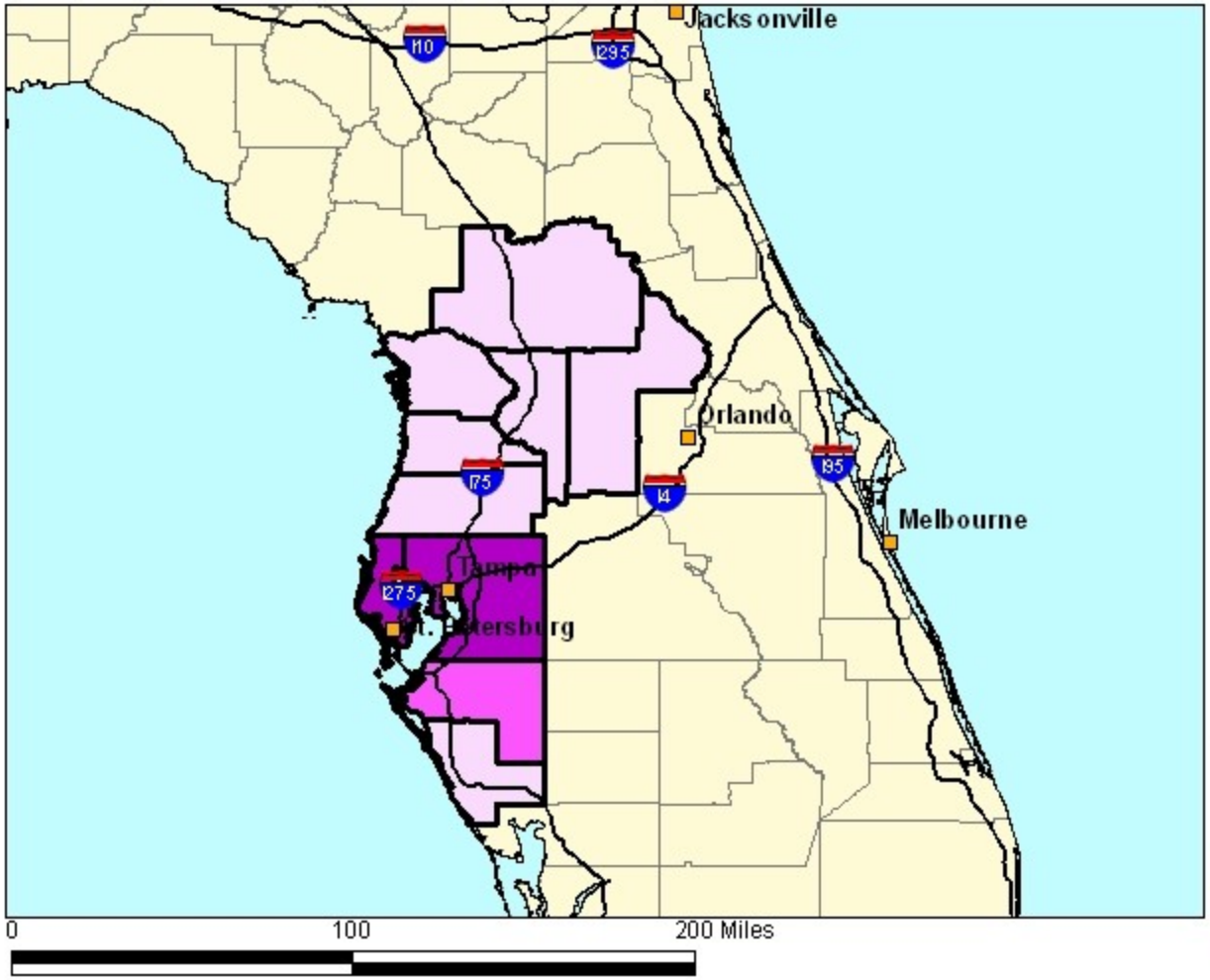

Post Landfall Temporary Housing Model Results

Florida - 22,200

Model results per county on following page

This model is based on a Category 3 storm making landfall near Tampa-St. Petersburg, FL.

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Tampa-St. Petersburg, FL. These projections are based on information from the NHC (1100 EDT 06/05/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model	
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US Army Corps of Engineers

Hurricane Exercise Temporary Housing Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	per State	County	per County
Florida		Citrus	< 100
		Hernando	200
		Hillsborough	8,600
		Lake	< 100
		Manatee	4,200
		Marion	300
		Pasco	700
		Pinellas	6,300
		Sarasota	1,700
		Sumter	200
Florida	22,200		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model

Generated By:
Siemsen, LRL 1130 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About **4** Hours

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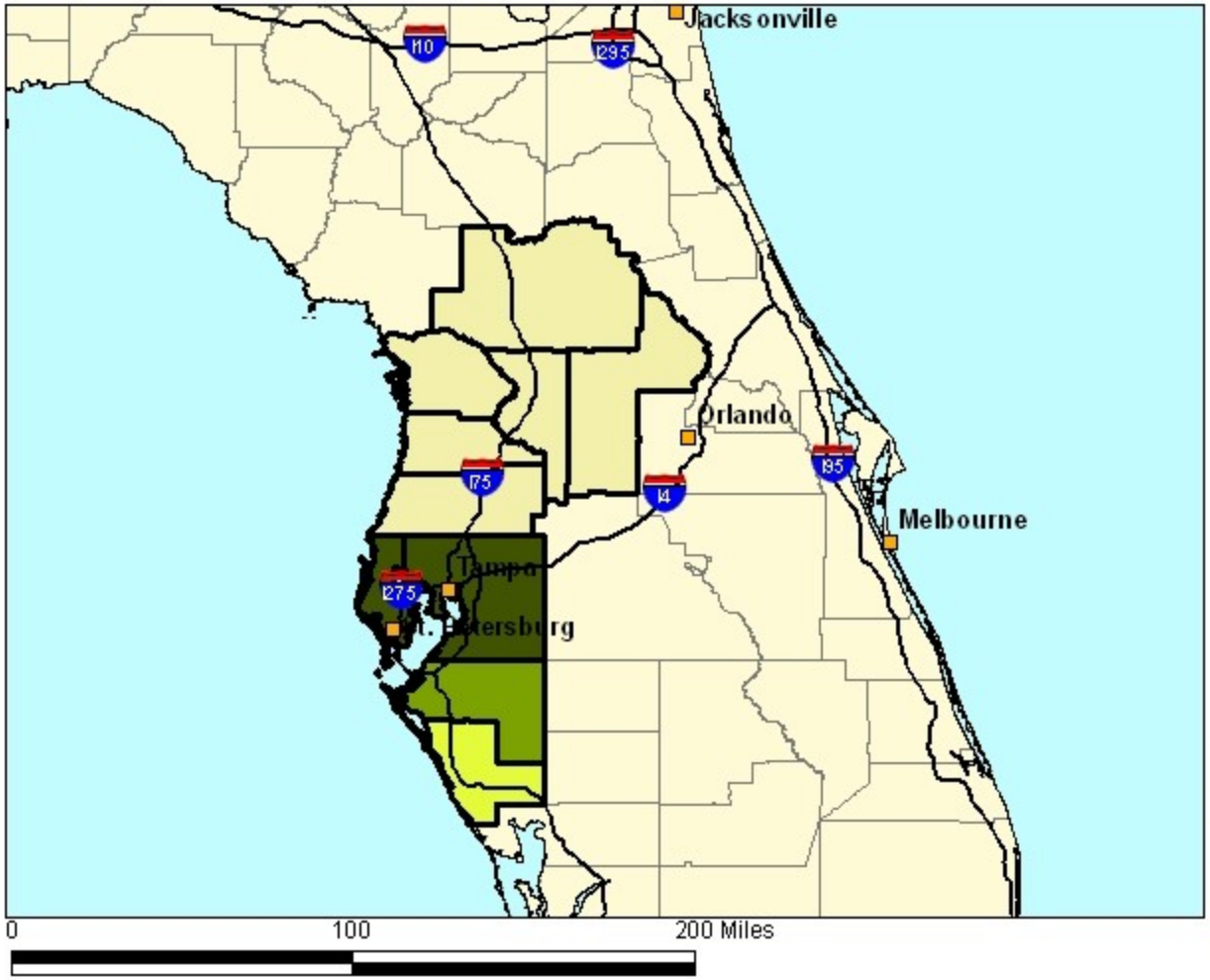

Post Landfall Temporary Roofing Model Results

Florida - 45,400

Model results per county on following page

This model is based on a Category 3 storm making landfall near Tampa-St. Petersburg, FL.

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Tampa-St. Petersburg, FL. These projections are based on information from the NHC (1100 EDT 06/05/2007) forecast. Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 11% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

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US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	House Units per State	County	House Units per County
Florida		Citrus	< 100
		Hernando	300
		Hillsborough	17,500
		Lake	< 100
		Manatee	8,800
		Marion	500
		Pasco	1,300
		Pinellas	13,300
		Sarasota	3,300
		Sumter	400
Florida	45,400		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 11% in CAT 3.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS